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control number. Complete if Known Substitute for form 1449A/PTO **Application Number** 10/067,495 INFORMATION DISCLOSURE February 4, 2002 Filing Date STATEMENT BY APPLICANT **First Named Inventor** Horenstein Art Unit 1714 (use as many sheets as necessary) **Examiner Name** Unknown **Attorney Docket Number** 3 of **UF-266X** 1 Sheet

			U.S. PATENT DO	DCUMENTS	
Examiner Initials*	Cite No. 1	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
Solit	5 Ü1 .	US-4,235,921	11-25-1980	Achini et al.	All
QX 1	Ü2	US-5,770,407	06-23-1998	Wong et al.	All
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Examiner Name	Unknown	
Attorney Docket Number	UF-266X	0

		NON PATENT LITERATURE DOCUMENTS	
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X4)	RA	Al Dulayymi et al., "Pyridazines by Addition of Diazoalkanes to 1-Bromo- and 1,2-Dibromocyclopropenes," Tetrahedron (1998) 54:12897-906, Pub: Pergamon; Elsevier Science Ltd.	
M	) B2	Avram et al., "Eine Umlagerung des Tricyclo[4.2.0.0 <sup>2.5</sup> ]Octan-Systems in das Tricyclo[4.2.0.0 <sup>2.4</sup> ]Octan-System," Chem. Ber. (1969) 102:4008-16, Pub: Unknown, XP-002203402	
All	R2	Baird, "The Intramolecular Interaction of Cyclopropylidenes with Organic Sulphides," J. Chem. Res. (1981) 11:4062-82, XP-002203403	
Sa	R4	Barraclough, "The <sup>1</sup> H Nuclear Magnetic Resonance Spectra of 6-Substituted Bicyclo-[3.1.0]hex-2-enes," <i>J. Chem. Soc. Perkin Trans. II</i> (1982) 6:651-6, XP-002203401	
SW	B8	Boswell et al., "1,4-Transannular Nitrogen to Carbon Rearrangement Following Intramolecular Carbenoid Insertion. Formation of 6-trans-Styryl-3-azabicyclo[3.1.0]hexane," J. Org. Chem. (1977) 42(13)2342-4, Pub: Unknown, XP-002203400	
AN	R8	Dehmlow et al., "1,3-Dipolare Additionen von Tetrachlorcyclopropen mit Diazoalkanen und Arylaziden," J. Chem. Res. (1978) 582-90, XP-002203404	
Ma	RÍ	Diaz et al., "Enantioselective Synthesis of Novel Homochiral α-Substituted (S)-Isoserine Derivatives. Incorporation of this Amino Acid in a Highly Conformationally Constrained Dipeptide Surrogate," Tetrahedron: Asymmetry (1996) 7(12)3465-78, Pergamon, Elsevier Science Ltd., Great Britain	٤
700	€8	Ezquerra et al., "4-Benzyl-2,3-didehydroprolinate as a Homochiral Template for Michael Additions. Synthesis of Enantiopure α-Allokalnoids, β-Kainoids, 2,3-Methanoprolines and other 3,4-Disubstituted Prolines," <i>Tetrahedron: Asymmetry</i> (1996) 7(9):2613-26, Pergamon, Elsevier Science Ltd., Great Britain	
	R9⁄	Gassman et al., "The Electrolytic Decarboxylation of cis- and trans-Bicyclo[3.1.0]hexane-3-carboxylic Acids," J. Amer. Chem. Society (1966) 88(10):2252-57, Pub: Unknown	
	R10	Gillespie et al., "The Reaction of Diazoalkanes with Thiophen," J. Chem. Society, Perkin Transactions 1 (1979) 7:2624-28, Pub: Chemical Society, Letchworth, Great Britain, XP-000196859	
	R11	Hercouet et al., "First Asymmetric Synthesis of (-)-(2S, 3R)-Methanoproline," Tetrahedron: Asymmetry (1996) 7(5):1267-8, Pergamon, Elsevier Science Ltd., Great Britain	
120	R12	Lautens et al., "Studies in the Directed Cyclopropanation of α-Allenic Alcohols," J. Am. Chem. Soc. (1994) 116:8526-35, Pub: Amer. Chem. Soc., XP-001084086	
A	R13/	Lescop et al., "Synthesis of Novel Nucleosides with a Fused Cyclopropane Ring Substituted by a Hydroxymethyl Group," Tetrahedron (2000) 56:2995-3003, Pergamon, Elsevier Science Ltd.	

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Application Number	10/067,495						
Filing Date	February 4, 2002						
First Named Inventor	Horenstein						
Group Art Unit	1714						
Examiner Name	Unknown						
Attorney Docket Number	UF-266X						

		NON PATENT LITERATURE DOCUMENTS									
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Sw	R#4	MacInnes et al., "Latent Inhibitors. Part 3. The Inhibition of Lactate Dehydrogenase and Alcohol Dehydrogenase by Cyclopropane-containing Compounds," J. Chem. Soc., Perkin Trans. I (1983) 11:2771-6, Pub: Unknown, XP-001084946									
Sw	B/15	Marinozzi et al., "Synthesis and Biological Evaluation of 6-Carboxy-3,4-Methanoprolines, New Rigid Glutamate Analogs," Il Farmaco (1995) 50(5):327-31, Pub: Unknown, XP-002203397									
AD	R16	McDonald et al., "Strained-Ring Systems. IX. The Preparation of Some 5-Substituted Bicyclo[3.1.0]hexane-1-carboxylic Acids," J. Org. Chem. (1970) 35(8):2666-9, Pub: Unknown, XP-001079761									
Ah	B/17	Prinzbach et al., "Photoisomerisierung des Cyclohexadien-(1.3)-dicarbonsäure-(1.4)-dimethylesters zu Bicyclo[3.1.0]hexen-Derivaten," Chem. Ber. (1965) 98(7):2201-20, Pub: Unknown, XP-001083605									
14	R#8	Scharf et al., "Synthese und Eigenschaften der Semiquadratsaure und ihrer Alkalisalze (Moniliformin)," Chem. Ser. (1978) 111:168-82, Pub: Verlag Chemie, GmbH, Weinheim; XP-002203405									
20	R#9	Sun et al., "Synthesis of a new Transition-State Analog of the Sialyl Donor. Inhibition of Sialyltransferases," Tetrahedron Letters (2001) 42:2451-53, Pergamon, Elsevier Science Ltd.									
X	R20	Tufariello et al., "The Synthesis and Cycloaddition Reactions of 3-Azabicyclo[3.1.0]hex-2-3n3 3-oxide," Tetrahedron Letters (1987) 28(3):267-70, Pergamon Journals Ltd., Elsevier Science Ltd., Great Britain, XP 002026036									
AGN	R21	Wiberg et al., "1,2-Bridged Cyclopropenes," J. Am. Chem. Soc. (1991) 113:7969-79, Pub: Amer. Chem. Soc., XP-001084087									
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of

Application Number 10/067,495

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First Named Inventor Benjamin A. Horenstein

Group Art Unit 1714

Examiner Name Unassigned

Attorney Docket Number UF-266X

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MU	R1	AMANN, F., et al., "New Potent SialyItransferase Inhibitors-Synthesis of Donor and of Transition-State Analogues of SialyI Donor CMP-Neu5Ac", Chem. Eur. J., 1998, 4(6):1106-1115, Pub: WILEY-VCH Verlag GmbH, Weinhelm, Germany	
SW	R2	CACCHI, S., et al., "Palladium-Catalyzed Carbonylation of Enol Triflates. A Novel Method for One-Carbon Homologation of Ketones to σ, β-Unsaturated Carboxylic Acid Derivatives", Tetrahedron Letters, 1985, 26(8):1109-1112, Pub: Pergamon Press Ltd., Great Britain	
We	R3	CROCKER, P.R., et al., "Sialoadhesin and related cellular recognition molecules of the immunoglobulin superfamily", Biochemical Society Transactions, 1996, 24:150-156, Pub: Portland Press Ltd., London, U.K.	
AD	RA	GILBERT, J.C., et al., "Competitive Sigmatropic Hydrogen Shifts in Bicyclo [3.1.0] hex-2-ene-6-endo-carboxaldehydes", J. Org. Chem., 1976, 41(24):3883-3891, Pub: unknown	•
9AJ	R5	GOTTSCHALK, A., "N-Substituted Isoglucosamine Released from Mucoproteins by the Influenza Virus Enzyme", Nature, 1951, 167(4256):845-847, Pub: unknown	
90	R6	HARDUIN-LEPERS, A., et al., "1994, the year of sialyltransferases", Glycobiology, 1995, 5(8):741-758, Pub: Oxford University Press	
AN	R7	HAYES, B.K., et al., "Biosynthesis of Oligosaccharides in Intact Golgi Preparations from Rat Liver", The Journal of Biological Chemistry, 1993, 268(22): 16155-16169, Pub: The American Society for Biochemistry and Molecular Biology, Inc., U.S.A.	
QD.	R8	KAJIHARA, Y., et al., "Efficient Chemical Synthesis of CMP-Neu5Ac and CMP-(Neu5Aca2 8Neu5Ac)", J. Org. Chem., 1995, 60:5732-5735, Pub: American Chemical Society, U.S.A.	
A).	R9	LOWE, John B., "Carbohydrate recognition in cell-cell interaction", Molecular Glycobiology, 1994, Ch. 4, pp. 163-205, Pub: Oxford University Press Inc., New York, U.S.A.	
Si	R10	MÜLLER, B., et al., "Efficient Sialyltransferase Inhibitors Based on Transition-State Analogues of the Sialyl Donor", Angew. Chem. Int. Ed., 1998, 37(20):2893-2897, Pub: WILEY-VCH Verlag GmbH, Weinheim, Germany	
Du	R11	POWELL, L.D., et al., "I-type Lectins", The Journal of Biological Chemistry, 1995, 270(24):14243-14246, Pub: The American Society for Biochemistry and Molecular Biology, Inc., U.S.A.	
QA	R12	REGLERO, A., et al., "Polysialic Acids", Int. J. Biochem., 1993, 25(11):1517-1527, Pub: Pergamon Press Ltd., Great Britain	
M	R13	REUTTER, W., et al., "The Biology of Sialic Acids: Insights into their Structure, Metabolism and Function in particular during Viral Infection", Glycosciences, 1997, Ch. 13, pp. 245-259, Pub: Chapman & Hall, Weinheim, Germany	

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All .	R14	SCHAUB, C., et al., "New sialyltransferase inhibitors based on CMP-quinic acid: development of a new sialyltransferase assay", Glycoconjugate Journal, 1998, 15:345-354, Pub: Chapman & Hall	
40	R15	VARKI, A., "Diversity in the sialic acids", Glycobiology, 1992, 2(1):25-40, Pub: Oxford University Press	
AH	R16	WATANABE, K.A., et al., "A Simple Method for Selective Acylation of Cytidine on the 4-Amino Group", Angew. Chem. Internat. Edit., 1966, 5(6): 579, Pub: Verlag Chemie, GmbH, Weinheim, Germany	
ad	R17	ZIELIŃSKI, W.S., et al., "Novel Preparation of Cytidine 5'-Phosphate and Cytidine 3', 5'-Cyclic Phosphate", Collection Czechoslov. Chem. Commun., 1974, 39:3560-3562, Pub: Unknown	
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